UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/702,486	10/31/2000	Yat-Sang Hung	1515	9822

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EXAMINER
JAMAL, ALEXANDER

ART UNIT	PAPER NUMBER
2643	H

DATE MAILED: 10/22/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	**Applicant(s)**
Office Action Summary	09/702,486	HUNG ET AL.
	Examiner	**Art Unit**	
	Alexander Jamal	2643	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *31 October 2000* .

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☐ Claim(s) _____ is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-23* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)☐ The proposed drawing correction filed on _____ is: a)☐ approved b)☐ disapproved by the Examiner.

    If approved, corrected drawings are required in reply to this Office action.

12)☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____ .

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

    a) ☐ The translation of the foreign language provisional application has been received.

15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) *3* .

4) ☐ Interview Summary (PTO-413) Paper No(s). _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: .

DETAILED ACTION

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed
> in the United States before the invention by the applicant for patent or (2) a patent granted on an application for
> patent by another filed in the United States before the invention by the applicant for patent, except that an
> international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this
> subsection of an application filed in the United States only if the international application designated the United
> States and was published under Article 21(2) of such treaty in the English language.

2.   **Claim 1** rejected under 35 U.S.C. 102(e) as being anticipated by Yamartino (6345095).

   a.   **Claim 1:** Yamartino discloses a subscriber terminal comprising:

      i.   A microprocessor (Col 6 lines 54-61).

      ii.   Memory is inherent to the processor for the purpose of storing the

telephone number database (Col 3 line 18-25).

      iii.   Digit sequences are stored in the telephone number database (Col 3 line

18-25).

      iv.   The processor receives user entered digits, determines if the digits entered

represent an incomplete set of digits, and if the number is recognized the system

adds the additional numbers to the entered number to make a complete set of

telephone digits (Col 4 lines 53-67) (Col 5 lines 18-30).

      v.   The terminal may send the completed set of digits to a communications

network (Col 12 lines 27-37).

   b.   **Claim 2:** Yamartino's terminal comprises a routine in which the user may enter

in digit sequences to be stored in the telephone number database (Col 7 lines 24-37).

c.   Claim 3: Yamartino's terminal may be wireless (ABSTRACT).

d.   Claim 4: In Yamartino's terminal, a 'send' button (on a keyboard) may be pressed to interact with selector 155 (Fig.1) (Col 6 lines 37-52) at which point selector 155 will communicate with Call Generator 160(Col 10 lines 30-37) to begin to complete the translation from the digits entered by the user to a complete telephone number that is dialed out.

e.   Claim 5: Yamartino discloses a subscriber terminal comprising:

i.   A microprocessor (Col 6 lines 54-61).

ii.   Memory is inherent to the processor for the purpose of storing the telephone number database (Col 3 line 18-25).

iii.   Digit sequences are stored in the telephone number database (Col 3 line 18-25).

iv.   The processor receives user entered digits, determines if the digits entered represent an abbreviated extension (such as a 4 digit subscriber number), and if the number is recognized as a valid number the system prepends the additional numbers to the entered number to make a complete composite telephone number (Col 4 lines 53-67) (Col 5 lines 18-30).

v.   The terminal may send the composite number to a communications network (Col 12 lines 27-37).

f.   Claim 6: Yamartino's terminal may be wireless (ABSTRACT).

g. **Claim 7:** Yamartino's terminal comprises a routine in which the user may enter in digit sequences that are stored in the telephone number database (Col 7 lines 24-37).

h. **Claim 8:** In Yamartino's terminal, a 'send' button (on a keyboard or keypad) may be pressed to interact with selector 155 (Fig.1) (Col 6 lines 37-52) at which point selector 155 will communicate with Call Generator 160(Col 10 lines 30-37) to begin to complete the translation from the digits entered by the user to a complete telephone number that is dialed out.

i. **Claim 9:** Yamartino's terminal may be a landline terminal (ABSTRACT).

j. **Claim 10:** Yamartino's terminal further comprises:

    i. A phonebook stored in memory (telephone number database 120 in Fig. 1) that defines a plurality of telephone numbers (Col 3 line 18-25).

    ii. A routine is executed where digits are entered by the user (Col 5 lines 18-37), and a lookup is done to determine if the entered digits match at least part of the numbers stored in the phone book (Col 5 line 63 to Col 6 line 19).

k. **Claim 11:** In Yamartino's terminal, if the user entered digits (such as the exchange and subscriber digits) and the area code was prepended onto the entered number, and if the composite number formed did not match up with any telephone database entries, then the terminal will prompt the user to select the appropriate telephone number from a list of numbers that contain the composite number and any additional numbers with the same subscriber or exchange numbers as the composite number (Col 10 line 37 to Col 9 line 10).

l.   **Claim 12:** In Yamartino's terminal, if the user has entered digits that match only one entry in the telephone database, then the selector 55 (Fig. 1) will automatically set that number as the target number and pass it on to call generator 160 to send the number out to the network (Col 10 lines 31-49).

m.   **Claim 13:** Yamartino discloses a subscriber terminal comprising:

    i.   A microprocessor (Col 6 lines 54-61).

    ii.   Memory is inherent to the processor for the purpose of storing the telephone number database (Col 3 line 18-25).

    iii.   Digit sequences are stored in the telephone number database (Col 3 line 18-25).

    iv.   The processor receives user entered digits, determines if the digits entered represent an abbreviated extension (such as a 4 digit subscriber number), and if the number is recognized as a valid number the system prepends the additional numbers to the entered number to make a complete composite telephone number (Col 4 lines 53-67) (Col 5 lines 18-30).

    v.   The terminal may send the composite number to a communications network (Col 12 lines 27-37).

n.   **Claim 14:** Yamartino's terminal will sense the length of the digits entered by the user (either the subscriber number or the exchange and subscriber numbers together) and, depending on the length, will select the appropriate digit sequence(s) (Col 4 line 53 to Col 5 line 18).

o.   **Claim 15:** Yamartino discloses a method for providing abbreviated dialing in a
subscriber terminal (with processor and memory) comprising:

     i.   A routine in which the user may enter in digit sequences to be stored in the
telephone number database (Col 7 lines 24-37).

     ii.   A routine in which digits are entered by the user (Col 5 lines 18-37), and a
lookup is done to determine if the entered digits match at least part of the numbers
stored in the phone book (Col 5 line 63 to Col 6 line 19). Then, if the user has
entered digits that match only one entry in the telephone database, then the
selector 155 (Fig. 1) will automatically set that number as the target number and
pass it on to call generator 160 (Col 10 lines 31-49).

     iii.   Call generator 160 may send the complete number out to the network.

p.   **Claim 16, 17:** Yamartino's terminal may be wireless or landline (ABSTRACT).

q.   **Claim 18:** In Yamartino's terminal, a 'send' button (on a keyboard) may be
pressed to interact with selector 155 (Fig.1) (Col 6 lines 37-52) at which point selector
155 will communicate with Call Generator 160(Col 10 lines 30-37) to begin to complete
the translation from the digits entered by the user to a complete telephone number that is
dialed out.

r.   **Claim 19:** Yamartino's terminal comprises a phonebook stored in memory
(telephone number database 120 in Fig. 1) that defines a plurality of telephone numbers
(Col 3 line 18-25). His method comprises programming a processor with a routine in
which digits are entered by the user (Col 5 lines 18-37), and a lookup is done to

determine if the entered digits match at least part of the numbers stored in the telephone

number database (Col 5 line 63 to Col 6 line 19).

s.   **Claim 20:** In Yamartino's method, if the user entered digits (such as the

exchange and subscriber digits) and the area code was prepended onto the entered

number, and if the composite number formed did not match up with any telephone

database entries, then the terminal will prompt the user to select the appropriate telephone

number from a list of numbers that contain the composite number and any additional

numbers with the same subscriber or exchange numbers as the composite number (Col 10

line 37 to Col 9 line 10).

t.   **Claim 21:** Yamartino discloses a method for providing abbreviated dialing in a

subscriber terminal (with processor and memory) comprising:

   i.   A routine in which the user may enter in digit sequences to be received

   and stored in (to update or setup) the telephone number database (Col 7 lines 24-

   37).

   ii.   A routine in which digits are entered by the user (Col 5 lines 18-37), and a

   lookup is done to determine if the entered digits match at least part of the numbers

   stored in the phone book (represent an abbreviated extension) (Col 5 line 63 to

   Col 6 line 19).

   iii.   The routine will sense the length of the digits entered by the user (either

   the subscriber number or the exchange and subscriber numbers together) and,

   depending on the length, will select the appropriate digit sequence(s) (Col 4 line

   53 to Col 5 line 18).

iv.   Based upon the length and values of the digits, In Yamartino's method, if

the user entered digits (such as the exchange and subscriber digits) that

correspond to an area code, then the area code is prepended onto the entered

number, (Col 9 line 64 to Col 10 line 15). Then, if the user selects that number to

be sent, the selector 155 (Fig. 1) will set that number as the target number and

pass it on to call generator 160 (Col 10 lines 31-49).

v.   Call generator 160 may send the complete number out to the network.

u.   **Claim 22:** Yamartino discloses a method for providing abbreviated dialing in a

subscriber terminal (with processor and memory, and multiple digit sequences stored in

memory) comprising:

i.   A routine in which digits are entered by the user (Col 5 lines 18-37), and a

lookup is done to determine if the entered digits match at least part of the numbers

stored in the phone book (represent an abbreviated extension) (Col 5 line 63 to

Col 6 line 19).

ii.   The routine will sense the length of the digits entered by the user (either

the subscriber number or the exchange and subscriber numbers together) and,

depending on the length, will select the appropriate digit sequence(s) (Col 4 line

53 to Col 5 line 18) (Col 9 line 64 to Col 10 line 15).

iii.   Based upon the length and values of the digits, In Yamartino's method, if

the user entered digits (such as the exchange and subscriber digits) that

correspond to an area code, then the area code is prepended onto the entered

number, (Col 9 line 64 to Col 10 line 15). Then, if the user selects that number to

be sent, the selector 155 (Fig. 1) will set that number as the target number and

pass it on to call generator 160 (Col 10 lines 31-49).

iv.   Call generator 160 may send the complete number out to the network.

Claim Rejections - 35 USC § 103

2.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

3.   **Claim 23** rejected under 35 U.S.C. 103(a) as being unpatentable over Yamartino

(6345095).

b.   **Claim 23:** Yamartino discloses a method in which a user can enter in a

predesignated amount of digits (4 is given as example) in order to initialize the system.

Once the system is initialized the appropriate set of numbers from the telephone database

are appended (or prepended) onto the entered digits to complete a standard telephone

number (Col 9 line 64 to Col 10 line 15). However Yamartino does not disclose the

abbreviated extension input being 5 digits.

Yamartino discloses that the initialization of the terminal may be determined by a

predesignated number of input digits (Col 4 line 44 to Col 5 line 18). Once the system is

initialized the appropriate digit sequence can be prepended onto the abbreviated number

based upon the length of the input abbreviated number. As such it would have been obvious to one of ordinary skill in the art at the time of this application to choose an arbitrary number of digits that could be entered to initialize the system for the advantage of allowing the user the greatest range of flexibility in determining the length of the abbreviated extension and corresponding digit sequences to be prepended onto the extension.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Jamal whose telephone number is 703-305-3433. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis A Kuntz can be reached on 703-305-4708. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-872-9315 for After Final communications.

AJ
October 16, 2003

DUC NGUYEN
PRIMARY EXAMINER